



A.D. 1857 N° 2468.

S P E C I F I C A T I O N

OF

WILLIAM POWER.

—
FURNACES.
—

LONDON:

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1858.



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Furnaces.

(This Invention received Provisional Protection, but notice to proceed with the application for Letters Patent was not given within the time prescribed by the Act.)

PROVISIONAL SPECIFICATION left by William Power at the Office of the Commissioners of Patents, with his Petition, on the 23rd September 1857.

I, WILLIAM POWER, of Rotherhithe, in the County of Surrey, Baker, do
5 hereby declare the nature of the said Invention for “**IMPROVEMENTS IN STEAM ENGINE BOILER FURNACES, AND OTHER FURNACES FOR SMOKE PREVENTION,**” to be as follows:—

My said Invention relates to the manner of constructing furnaces of various descriptions in which coal is consumed, so as to prevent the nuisance of smoke
10 escaping from the chimney.

In steam engine boiler furnaces, baker's ovens, and other ovens and fire places, I provide one or more air grooves or channels in the vertical side brickwork, or lumps in that part of the side walls of the furnace at or near the back end of the fire bars abutting on the fire bridge, which grooves convey the
15 air upwards from the ash-pit to the interior of the furnace. In baker's ovens built without a fire bridge at the end of the grate, I erect an arch or inverted bridge, which occasions the gases and flame to be impelled downwards previous to their entering the oven, thereby effecting a more perfect combustion than ordinary. The air grooves or channels should be alike in each side of the
20 furnace, and may when so desired, be supplied with air valves to close them or regulate the admission of the warm air from the ash-pit.

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Printers to the Queen's most Excellent Majesty. 1858.

